Approved For Release 2005/02/17 : CIA-RDP78B04770A001100050004-2

File 997:34

AL-16-800304-/

21 January 1966

Dear Boyd:

25X1

Subject: Contract [redacted] - Process Specifications and Curves for RT-12R and RT-24 Processors

We are forwarding herewith thirteen (13) copies of the following Process Specifications and Curves for the subject Processors:

a. RT-12-R Process:

Regular Process	Reversal Process
3400	3400
3401	3401
3404	3404
8430	8430

b. RT-24 Process:

Kodabromide F-2

Resisto Rapid N-2

Dick

RRW:eb

Copy #1: BN w/13 encs. (unclassified)
#2: JP w/1 enc. (unclassified)

Declass Review by NGA
Approved For Release 2005/02/17 : CIA-RDP78B04770A001100050004-2

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DATE 11-12-65

PROCESSING SPECIFICATION NO. _____

Reversal Process
MACHINE RT-12R
PRODUCT Original Negative
EMULSION TYPE 3400
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☑ DOWN ☐

MACHINE SPEED DIAL SETTING 5.5
FILM STRIP SPEED 5.5'/m
SECONDS PER RACK 52
THREAD-UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	AGITATION TYPE	AGITATION GAS	AGITATION PRES.
1st Developer	14DN20G*	14DN20G	150 (70mm) 300 (9½")	80±.5	3'20"	4		Roller Action			
Rinse	H_2O	H_2O	100%	80±2	50"	1		Roller Action			
Bleach	R-9S	R-9-RS	300 (70mm) 800 (9½")	80±2	50"	1		Roller Action			
Clearing Bath	CB-2	CB-2	300	80±2	50"	1		Roller Action			
Rinse	H_2O	H_2O	2 gal.	80±2	50"	1		Cascading			
2nd Developer	D-95	D-95R	300	80±1	1'40"	2		Roller Action			
Rinse	H_2O	H_2O	2 gal.	80±2	50"	1		Cascading			
Fix	Type A	Type A	300	80±2	50"	1		Roller Action			
Wash	H_2O	H_2O	2 gal.	80±2	2'30"	3		Cascading			
Dry				130±5							

DAMPER SETTINGS:
INTAKE _____
EXHAUST _____

VARIAC SETTINGS
LOCATION OR NO. OF WGTS. _____

COMMENTS:
1. Re-exposure amperage set at 5.25.
2. Powerstat set at 70.
3. Heater selector set at 5.
4. Blower selector set at 3.

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* To a fresh tank, add 1 bottle of Type A starter per rack of developer.

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Emulsion 3400 **Date** 17 Dec. 1965

Experimenter **Date** **Witness** **Date**

EXPOSURE

Sensitometer 1B

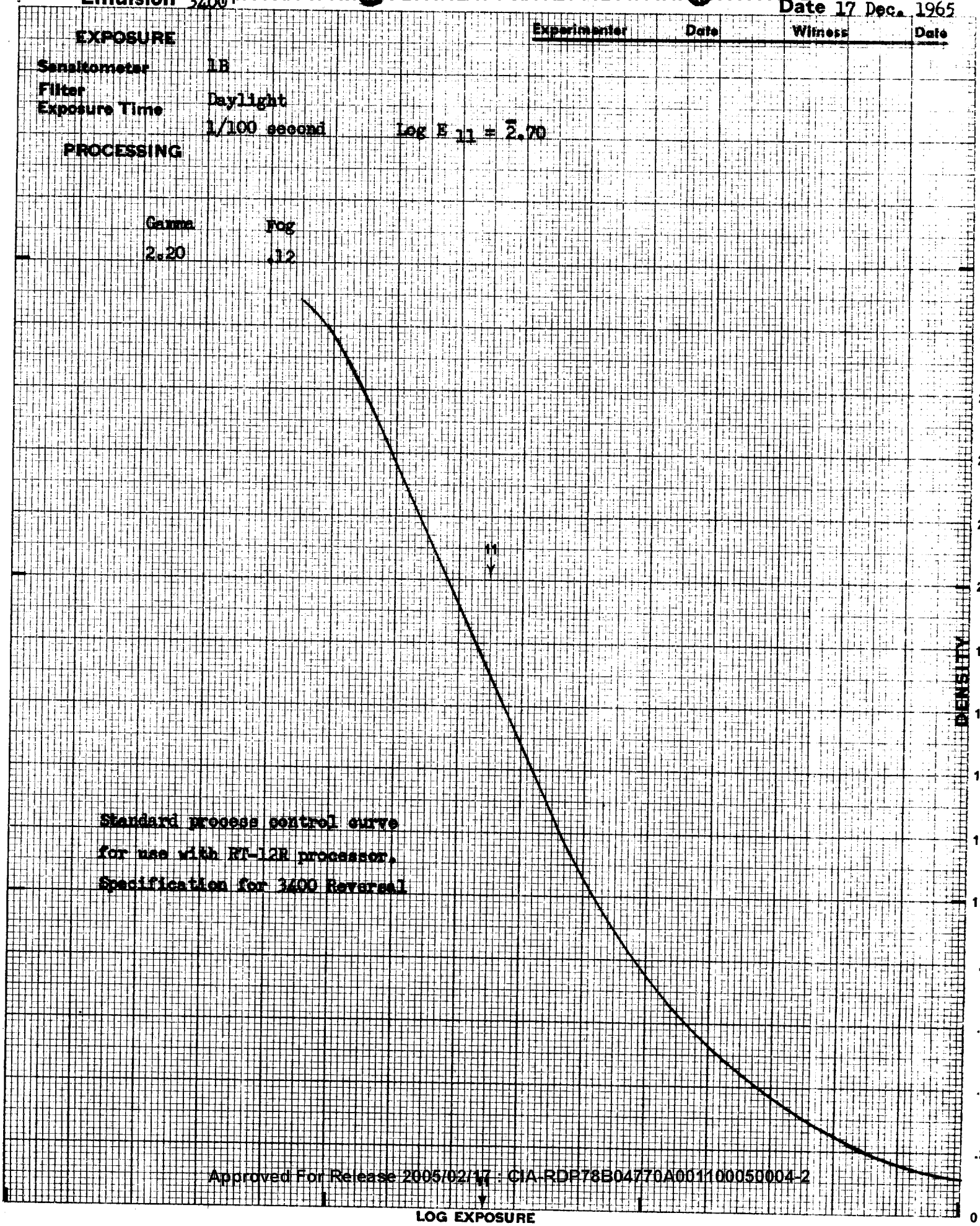
Filter Daylight

Exposure Time 1/100 second

$\text{Log } E_{11} = \bar{2}.70$

PROCESSING

Gamma	Fog
2.20	.12



Standard process control curve
for use with RT-12R processor.
Specification for 3400 Reversal

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DATE 11-12-65

PROCESSING SPECIFICATION NO. _____

Negative Process
MACHINE RT-12R
PRODUCT Original Negative
EMULSION TYPE 3400
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☒ DOWN ☐

MACHINE SPEED DIAL SETTING 18
FILM STRIP SPEED 18'/m
SECONDS PER RACK 14"
THREAD-UP Full
Intermediate Process Level

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	AGITATION TYPE	AGITATION GAS	AGITATION PRES.
1st Developer	Type A	Type A	250 (70mm) 500 (9½")	85±1	55"	4		Roller Action			
Stop Bath	SB5B	SB5B	500	85±2	14"	1		Roller Action			
Fix	Type A	Type A	500	85±2	1'24"	6		Roller Action			
Wash	H_2O	H_2O	3 gal/m	85±2	55"	4		Cascading			
Dryer				125±5							

DAMPER SETTINGS:
INTAKE _____
EXHAUST _____

VARIAC SETTINGS
LOCATION OR NO. OF WGTS. _____

COMMENTS:
1. Adjust speed dial to zero ft/min before shutting off machine.
2. Heater selector set at 5. Blower selector set at 3.

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To a fresh tank of developer, add 1 bottle of Type A starter solution per rack.

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Emulsion 3400 **Date** 17 Dec. 1965

Experimenter Date Witness Date

EXPOSURE

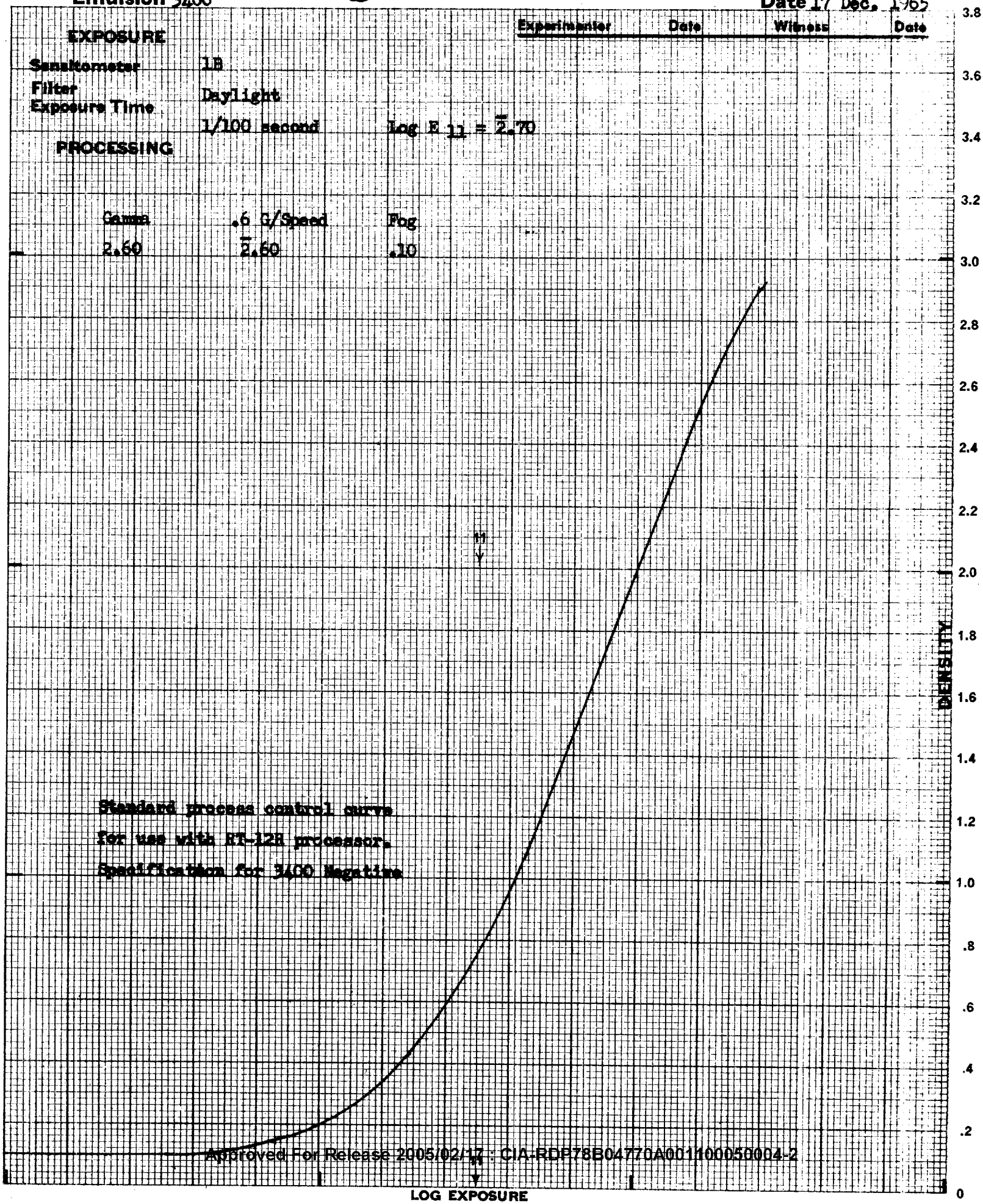
Sensitometer 1B

Filter Daylight

Exposure Time 1/100 second Log E 11 = $\bar{2}.70$

PROCESSING

Gamma	.6 G/Speed	Fog
2.60	$\bar{2}.60$	.10



Standard process control curve
for use with RT-12H processor.
Specification for 3400 Negative

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DATE 11-12-65

PROCESSING SPECIFICATION NO. _____

Reversal Process
MACHINE RT-12R
PRODUCT Original Negative
EMULSION TYPE 3404
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☒ DOWN ☐

MACHINE SPEED DIAL SETTING 9
FILM STRIP SPEED 9'/m
SECONDS PER RACK 28
THREAD-UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	TYPE	AGITATION	GAS	PRES.
1st Developer	14DN20G*	14DN20G	250 (70mm) 500 (9½")	72±.5	1'51"	4			Roller Action			
Rinse	H_2O	H_2O	100%	72±2	28"	1			Roller Action			
Bleach	R-9S	R-9-RS	400 (70mm) 1000 (9½")	72±2	28"	1			Roller Action			
Clearing Bath	CB-2	CB-2	500	72±2	28"	1			Roller Action			
Rinse	H_2O	H_2O	2 gal.	72±2	28"	1			Cascading			
2nd Developer	D-95	D-95R	500	72±1	56"	2			Roller Action			
Rinse	H_2O	H_2O	2 gal.	72±2	28"	1			Cascading			
Fix	Type A	Type A	500	72±2	28"	1			Roller Cascading			
Wash	H_2O	H_2O	2 gal.	72±2	1'24"	3			Cascading			
Dry				125±5								

DAMPER SETTINGS:
INTAKE _____
EXHAUST _____

VARIAC SETTINGS
LOCATION OR NO. OF WGTS. _____

COMMENTS:
1. Re-exposure amperage set at 5.25.
2. Powerstat set at 70.
3. Heater selector set at 5.
4. Blower selector set at 3.

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*To a fresh tank, add 1 bottle of Type A starter per rack of developer.

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Emulsion 3404 **Date** 17 Dec. 1965

Experimenter	Date	Witness	Date

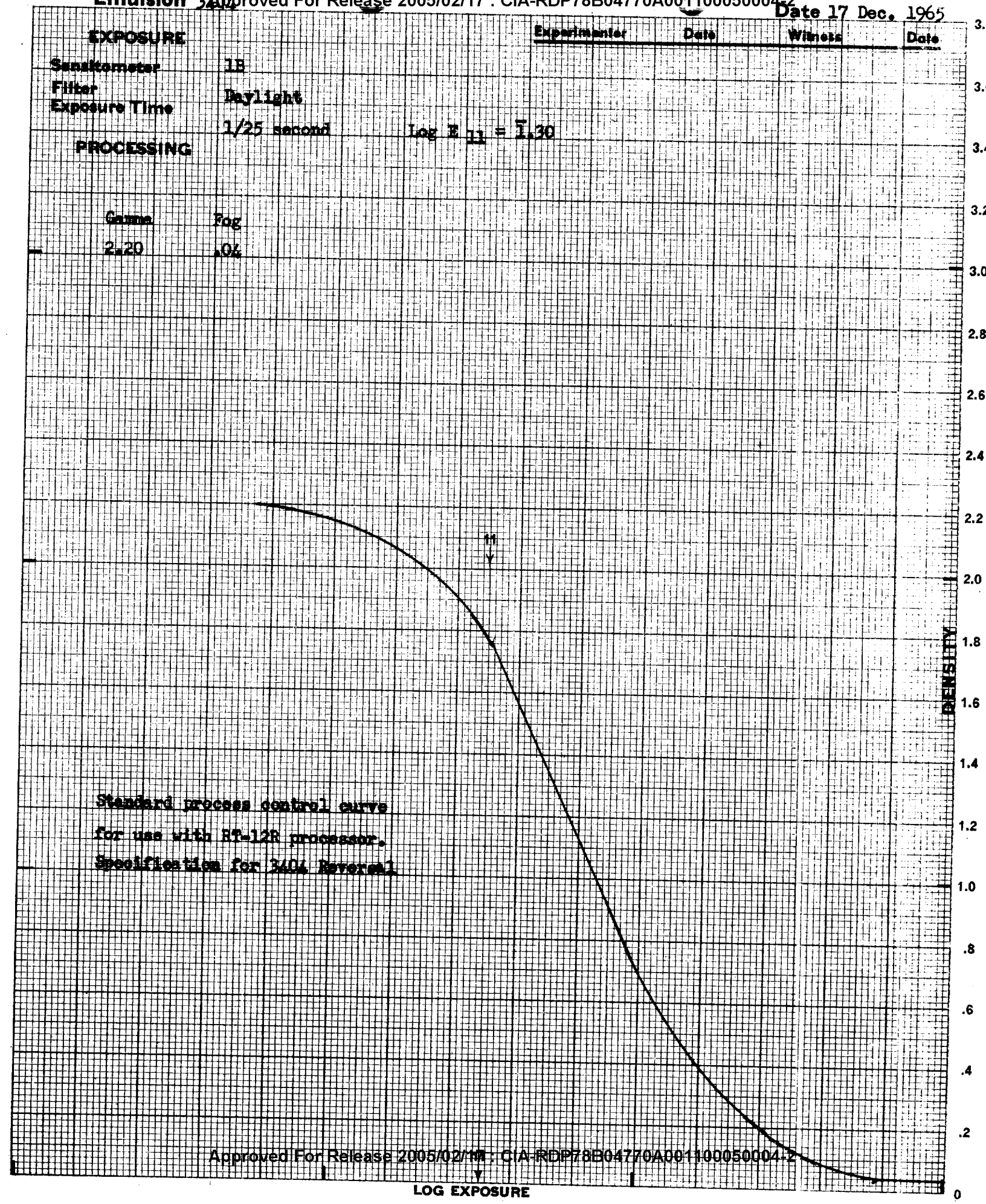
EXPOSURE

Sensitometer 1B
Filter Daylight
Exposure Time 1/25 second

Log E 11 = 1.30

PROCESSING

Gamma	Fog
2.20	.04



Standard process control curve
for use with RT-12R processor.
Specification for 3404 Reversal

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DATE 11-12-65

PROCESSING SPECIFICATION NO. _____

Negative Process

MACHINE RT-12R
PRODUCT Original Negative
EMULSION TYPE 3404
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☒ DOWN ☐

MACHINE SPEED DIAL SETTING 5
FILM STRIP SPEED 5'/m
SECONDS PER RACK 52"
THREAD-UP Full

Intermediate Process Level

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	TYPE	AGITATION	GAS	PRES.
1st Developer	Type A	Type A	250 (70mm) 500 (9½")	95±1	3' 28"	4		Roller Action				
Stop Bath	SB5B	SB5B	250 (70mm) 500 (9½")	95±2	55"	1		Roller Action				
Fix	Type A	Type A	500	95±2	5' 30"	6		Roller Action				
Wash	H_2O	H_2O	3 gal/m	95±2	3' 28"	4		Cascading				
Dryer				125±5								

DAMPER SETTINGS:
INTAKE _____
EXHAUST _____

VARIAC SETTINGS
LOCATION OR NO. OF WGTS. _____

COMMENTS:
1. Adjust speed dial to zero ft/min before shutting off machine.
2. Heater selector set at 5. Blower selector set at 3.

To a fresh tank of developer, add 1 bottle of Type A starter solution per rack.

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Emulsion 3404 Date 17 Dec. 1965

Experimenter Date Witness Date

EXPOSURE

Sensitometer 1B

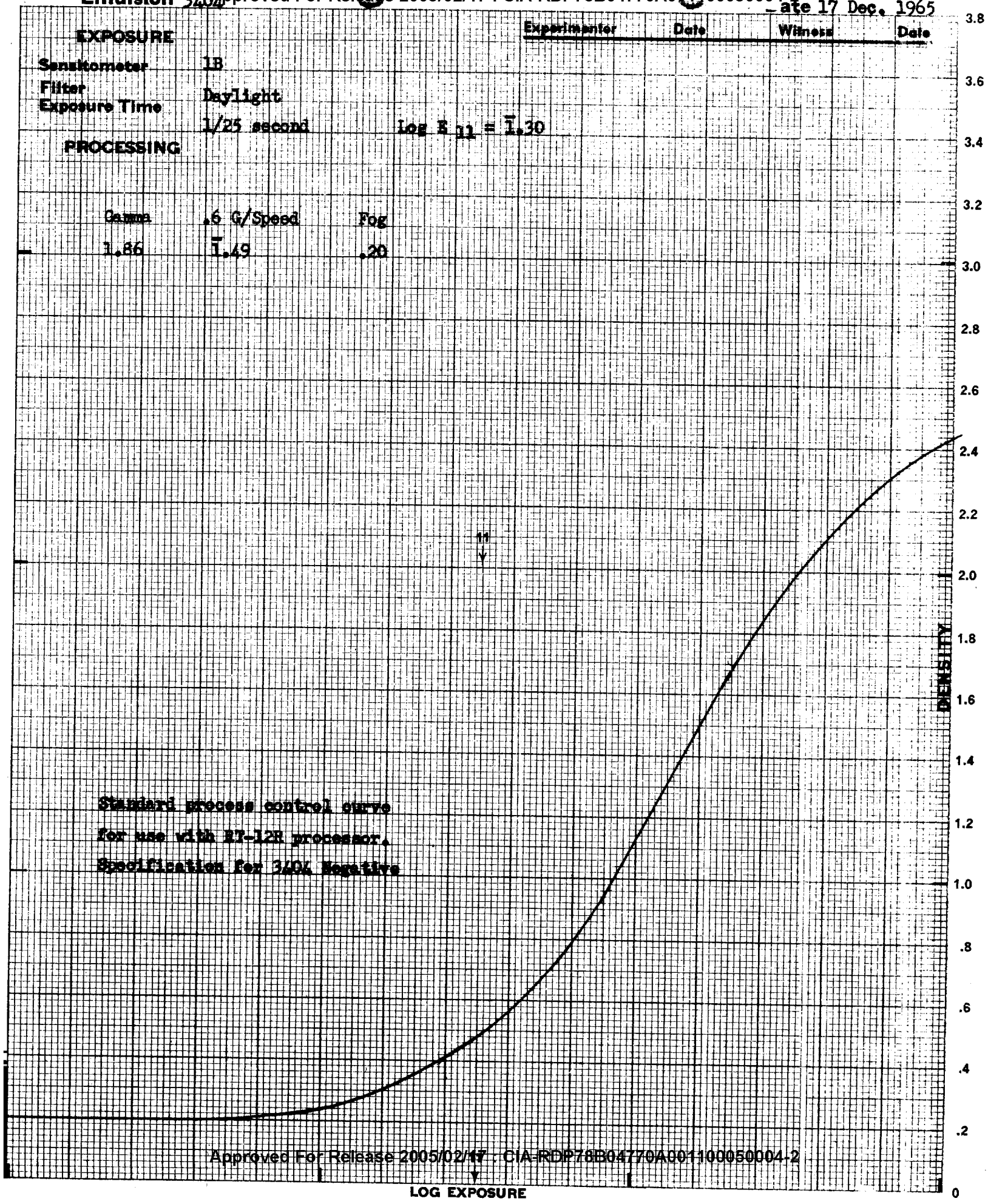
Filter Daylight

Exposure Time 1/25 second

Log E 11 = $\bar{1}.30$

PROCESSING

Gamma	G/Speed	Fog
1.86	$\bar{1}.49$	.20



Standard process control curve
for use with RT-12R processor.
Specification for 3404 Negative

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DATE 11-12-65

PROCESSING SPECIFICATION NO. _____

Reversal Process
MACHINE RT-12R
PRODUCT Original Negative
EMULSION TYPE 3401
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☒ DOWN ☐

MACHINE SPEED DIAL SETTING 9
FILM STRIP SPEED 9'/m
SECONDS PER RACK 28
THREAD-UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	AGITATION TYPE	AGITATION GAS	AGITATION PRES.
1st Developer	14DN20G*	14DN20G	250 (70mm) 500 (9½")	72±.5	1'51"	4			Roller Action		
Rinse	H_2O	H_2O	100%	72±2	28"	1			Roller Action		
Bleach	R-9S	R-9-RS	400 (70mm) 1000 (9½")	72±2	28"	1			Roller Action		
Clearing Bath	CB-2	CB-2	500	72±2	28"	1			Roller Action		
Rinse	H_2O	H_2O	2 gal.	72±2	28"	1			Cascading		
2nd Developer	D-95	D-95R	500	72±1	56"	2			Roller Action		
Rinse	H_2O	H_2O	2 gal.	72±2	28"	1			Cascading		
Fix	Type A	Type A	500	72±2	28"	1			Roller Action		
Wash	H_2O	H_2O	2 gal.	72±2	1'24"	3			Cascading		
Dryer				130±5							

DAMPER SETTINGS:
INTAKE _____
EXHAUST _____

VARIAC SETTINGS
LOCATION OR NO. OF WGTS. _____

COMMENTS:
1. Re-exposure amperage set at 5.25.
2. Powerstat set at 70.
3. Heater selector set at 5.

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* To a fresh tank, add _____ 1 bottle of Type A starter per rack of developer

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Emulsion 3401 **Date** 17 Dec. 1965

Experimenter	Date	Witness	Date

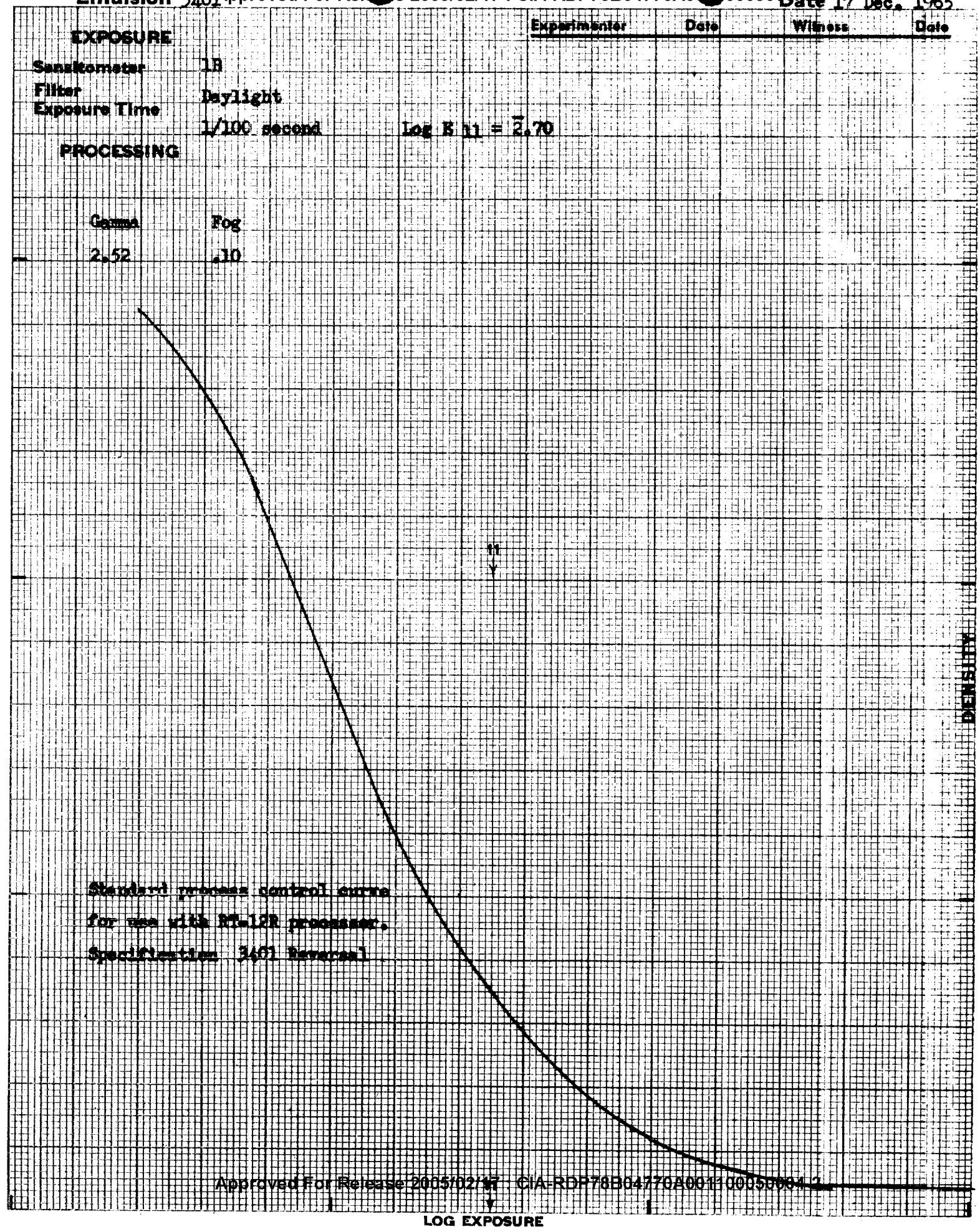
EXPOSURE

Sensitometer 1B
Filter Daylight
Exposure Time 1/100 second

Log E 11 = 2.70

PROCESSING

Gamma	Fog
2.52	.10



Standard process control curve
for use with MT-12R processor.
Specification 3401 Reversal

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DATE 11-12-65

PROCESSING SPECIFICATION NO.

Negative Process
MACHINE RT-12R
PRODUCT Original Negative
EMULSION TYPE 3401
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☒ DOWN ☐

MACHINE SPEED DIAL SETTING 18
FILM STRIP SPEED 18'/m
SECONDS PER RACK 14"
THREAD-UP Full
Intermediate Process Level

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	TYPE	AGITATION	AGITATION GAS	PRES.
1st Developer	Type A	Type A	250 (70mm) 500 (9½")	82±1	55"	4		Roller Action				
Stop Bath	SB5B	SB5B	500	82±2	14"	1		Roller Action				
Fix	Type A	Type A	500	82±2	1' 24"	6		Roller Action				
Wash	H_2O	H_2O	3 gal/m	82±2	55"	4		Cascading Action				
Dryer				125±5								

DAMPER SETTINGS:
INTAKE
EXHAUST

VARIAC SETTINGS
LOCATION OR NO. OF WGTS.

COMMENTS:
1. Adjust speed dial to zero ft/min before shutting off machine.
2. Heater selector set at 5. Blower selector set at 3.

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To a fresh tank of developer, add 1 bottle of Type A starter solution per rack.

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Emulsion 3401 **Date** 17 Dec. 1965

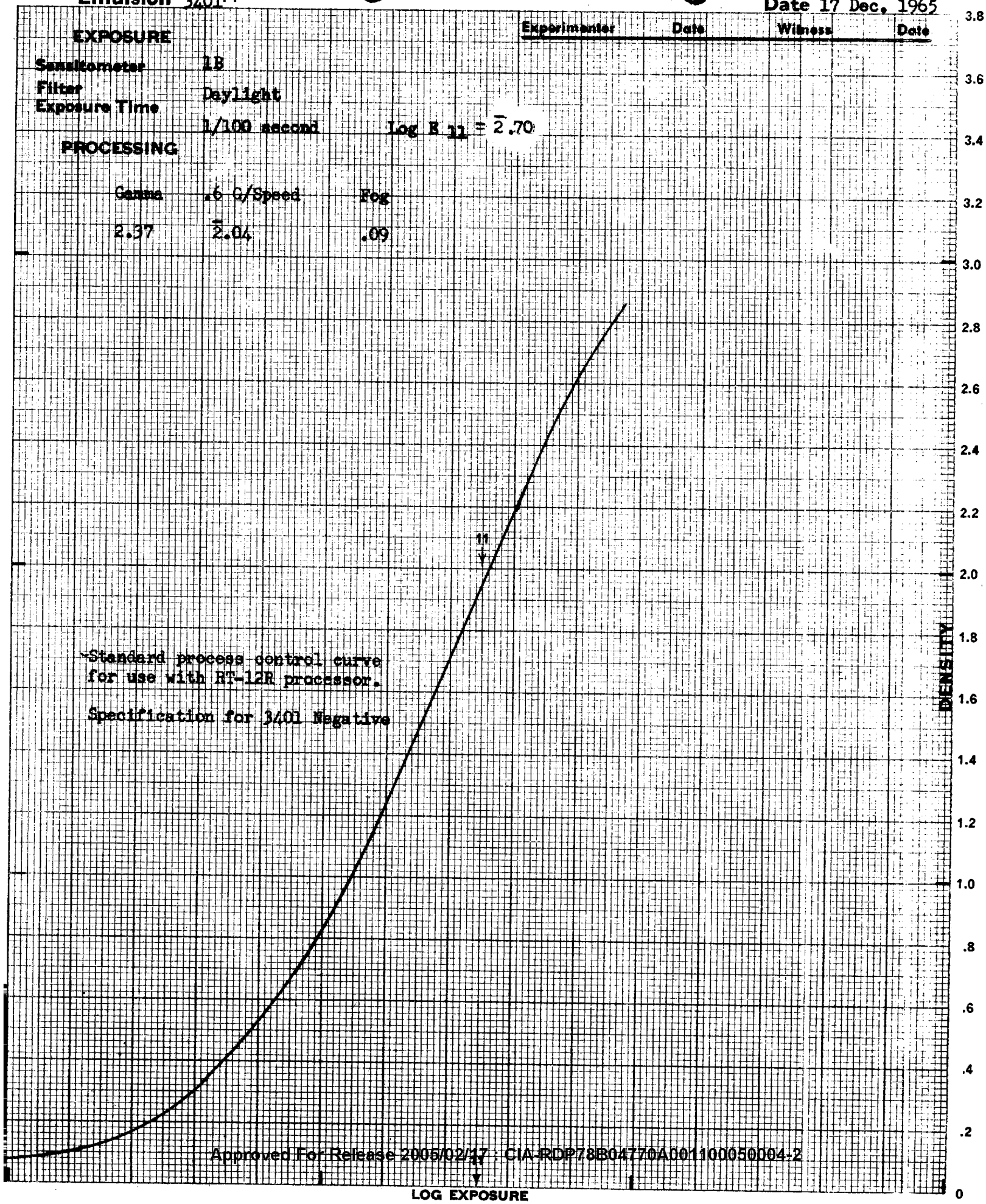
Experimenter	Date	Witness	Date

EXPOSURE

Sensitometer 1B
Filter Daylight
Exposure Time 1/100 second Log E 11 = $\bar{2}$.70

PROCESSING

Gamma	.6 G/Speed	Fog
2.37	$\bar{2}$.04	.09



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DATE 11-12-65

PROCESSING SPECIFICATION NO. _____

Negative Process

MACHINE RT-12R
PRODUCT Dupe Pos & Neg
EMULSION TYPE 8430
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☒ DOWN ☐

MACHINE SPEED DIAL SETTING 30
FILM STRIP SPEED 30'/m
SECONDS PER RACK 8"
THREAD-UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	AGITATION TYPE	AGITATION GAS	AGITATION PRES.
1st Developer	Type A	Type A	250 (70mm) 500 (9½")	72±1	34"	4		Roller Action			
Stop Bath	SB5B	SB5B	500	72±2	8"	1		Roller Action			
Fix	Type A	Type A	500	72±2	48"	6		Roller Action			
Wash	H_2O	H_2O	3 gal/m	72±2	34"	4		Cascading			
Dryer				125±5							

DAMPER SETTINGS:
INTAKE _____
EXHAUST _____

VARIAC SETTINGS
LOCATION OR NO. OF WGTS. _____

COMMENTS:
1. Adjust speed dial to zero ft/min before shutting off machine.
2. Heater selector set at 5. Blower selector set at 3.

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To a fresh tank of developer, add 1 bottle of Type A starter solution per rack.

Approved For Release 2005/02/17 : CIA-RDP78B04770A001100050004-2

Emulsion 8430 **Date** 17 Dec. 1965

Experimenter	Date	Witness	Date

EXPOSURE

Sensitometer 1B

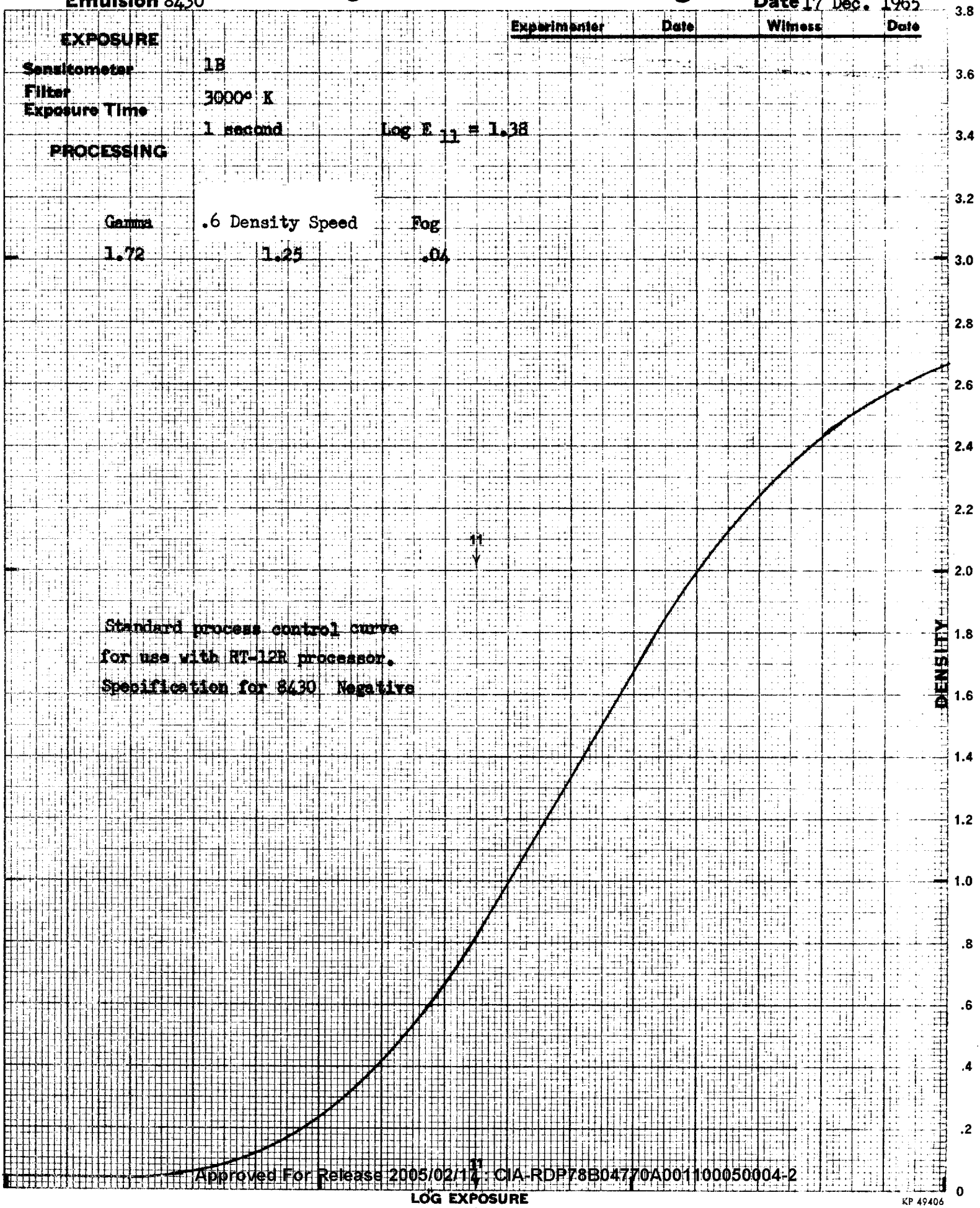
Filter 3000° K

Exposure Time 1 second

$\text{Log } E_{11} = 1.38$

PROCESSING

Gamma	.6 Density Speed	Fog
1.72	1.25	.04



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DATE 11-12-65

PROCESSING SPECIFICATION NO. _____

Reversal Process
MACHINE RT-12R
PRODUCT Dupe Pos & Neg
EMULSION TYPE 8430
SIZE Up to 9.5 inches
PROCESS EMULSION UP ☒ DOWN ☐

MACHINE SPEED DIAL SETTING 12
FILM STRIP SPEED 12'/m
SECONDS PER RACK 21
THREAD-UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL RPL.	RPL. RATE (mls/min)	TEMP. (°F)	TIME	NO. R.	PUMP PRESSURE	NOZZLE TYPE	AGITATION TYPE	AGITATION GAS	AGITATION PRES.
1st Developer	14DN20G*	14DN20G	250 (70mm) 500 (9½")	75±.5	1'24"	4		Roller Action			
Rinse	H_2O	H_2O	100%	75±2	21"	1		Roller Action			
Bleach	R-9S	R-9S	400 (70mm) 1000 (9½")	75±2	21"	1		Roller Action			
Clearing Bath	CB-2	CB-2	500	75±2	21"	1		Roller Action			
Rinse	H_2O	H_2O	2 gal.	75±2	21"	1		Cascading			
2nd Developer	D-95	D-95R	500	75±1	42"	2		Roller Action			
Rinse	H_2O	H_2O	2 gal.	75±2	21"	1		Cascading			
Fix	Type A	Type A	500	75±2	21"	1		Roller Action			
Wash	H_2O	H_2O	2 gal.	75±2	1'03"	3		Cascading			
Dry				125±5							

DAMPER SETTINGS:
INTAKE _____
EXHAUST _____

VARIAC SETTINGS
LOCATION OR NO. OF WGTS. _____

COMMENTS:
1. Re-exposure amperage set at 5.25.
2. Powerstat set at 70.
3. Heater selector set at 5.
4. Blower selector set at 3.

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* To a fresh tank, add 1 bottle of Type A starter per rack of developer.

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Emulsion 8430 **Date** 17 Dec. 1965

Experimenter Date Witness Date

EXPOSURE

Sensitometer 1B

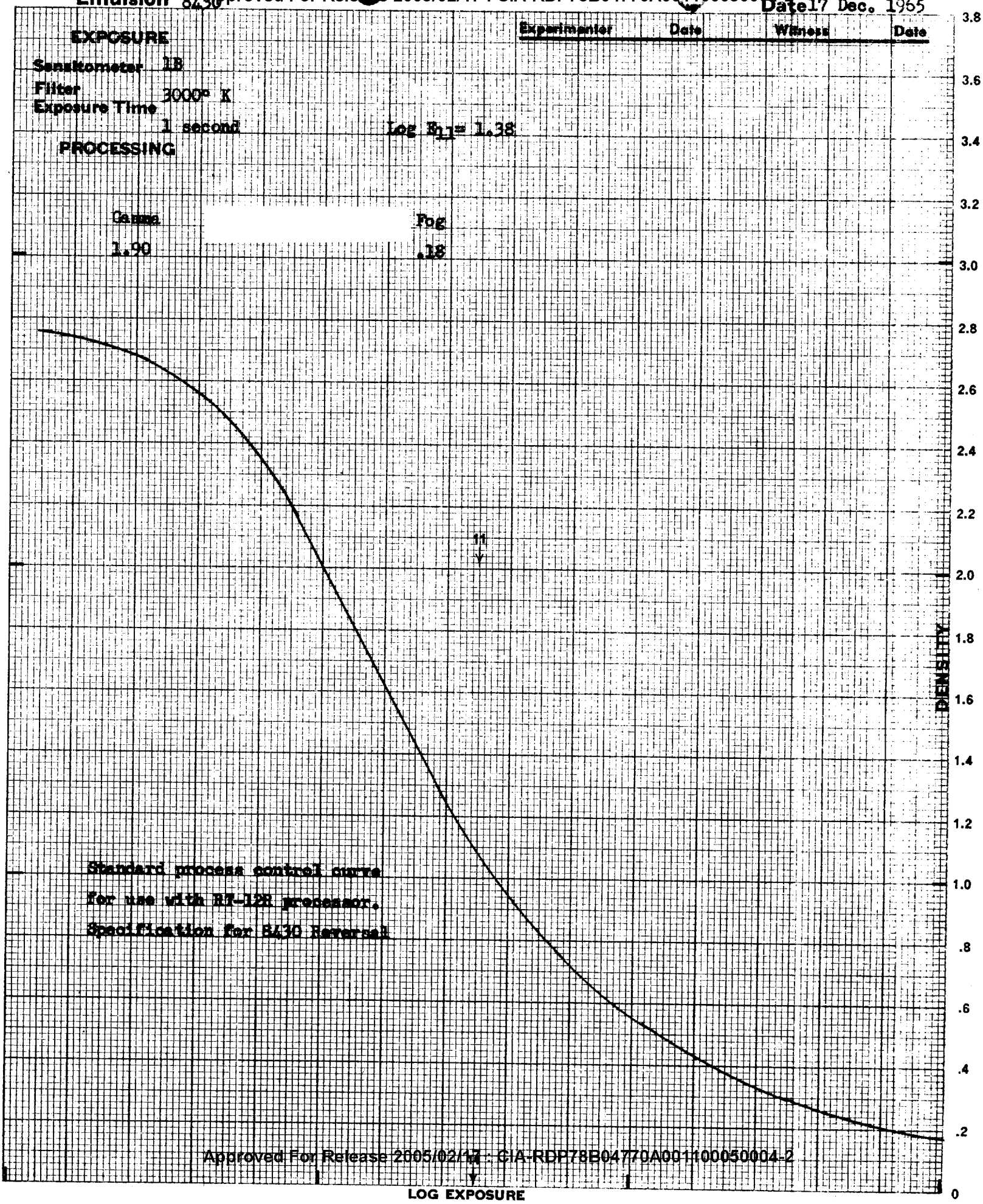
Filter 3000° K

Exposure Time 1 second

$\text{Log } E_{11} = 1.38$

PROCESSING

Gamma	Fog
1.90	.18



Standard process control curve
for use with RT-12R processor.
Specification for 8430 Reversal

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DATE 10-11-65

PROCESS SPECIFICATION No.

MACHINE RT-24
PRODUCT Paper
KIND ~~EMULSION TYPE~~ Kodabromide F-2
SIZE 24-Inch
PROC. EMUL. UP ☐ DOWN ☒

MACHINE SPEED DIAL SETTING 5.5 ft./min.
FILM STRIP SPEED 5.5 ft./min.
SECONDS PER RACK 45
THREAD UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL REPL	REPL RATE (PER MIN)	TEMP °F	(Min.) TIME	NO. R	AGITATION	COMMENTS
Developer	Dektol 1:2	Dektol 1:2	100	68	1 1/2	2	Recirculation and Roller Action	1. Replenisher rates are tentative
Fixer #1	Versamat Type A	Versamat Type A	150	68	1 1/2	2	"	extensive runs could indicate minor
Fixer #2	F-5	F-5	75	68	3/4	1	"	changes.
Wash	H_2O		3 1/2 gal	68	5 1/4	7	Roller Action	2. Three ratosights are provided; setting is 3½ gals./min. for each.
								3. Air sensor pressure setting is
Dryer				* 120	3	4		1 3/4 psi; main air line setting 20 psi.

~~EXAMPLE SETTINGS:~~

~~XXXXXX~~ * Blower selector set at 2
Heater selector set at 2

EXHAUST

Dry to Dry 12 Min.

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Emulsion Kodabromide F

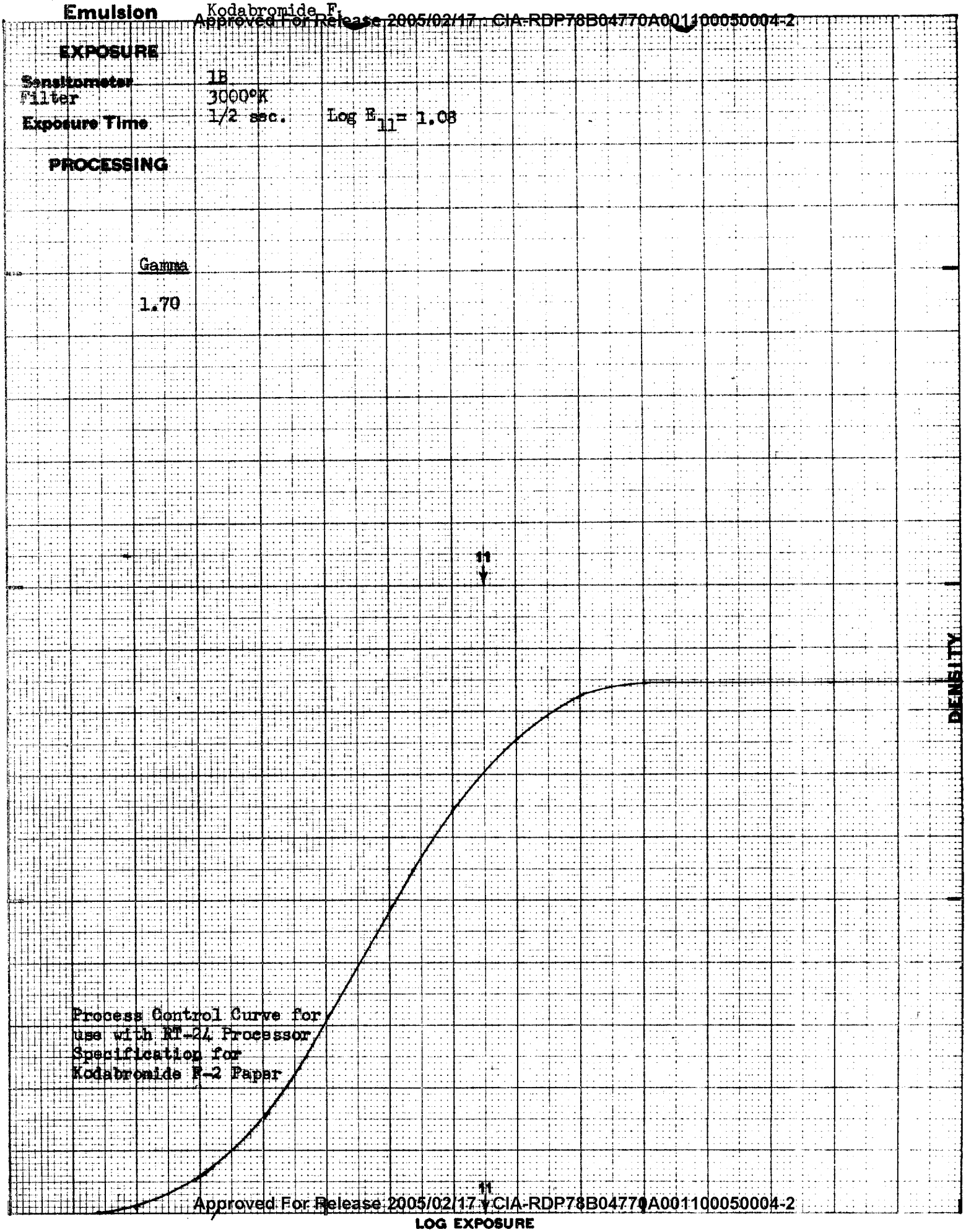
EXPOSURE

Sensitometer 1B
Filter 3000°K
Exposure Time 1/2 sec. Log E_{11} = 1.08

PROCESSING

Gamma

1.70



Process Control Curve for
use with RT-24 Processor
Specification for
Kodabromide F-2 Paper

Approved For Release 2005/02/17 : CIA-RDP78B04770A001100050004-2

Approved For Release 2005/02/17 : CIA-RDP78B04770A001100050004-2

DATE 10-11-65

PROCESS SPECIFICATION No.

MACHINE RT-24
PRODUCT Paper
KIND Resisto Rapid
SIZE 24-Inch
PROC. EMUL. UP [X] DOWN [ ]

MACHINE SPEED DIAL SETTING 8.5 ft./min.
FILM STRIP SPEED 8.5 ft./min.
SECONDS PER RACK 30
THREAD UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL REPL	REPL RATE (PER MIN)	TEMP °F	(Min.) TIME	NO. R	AGITATION	COMMENTS
Developer	Dektol 1:2	Dektol 1:2	200	68	1	2	Recirculation and Roller Action	1. Replenisher rates are tentative;
Fixer #1	Versamat Type A	Versamat Type A	300	68	1	2	"	extensive runs could indicate minor
Fixer #2	F-5	F-5	150	68	1/2	1	"	changes.
Wash	H_2O			68	3 1/2	7	Roller Action	2. Three ratosights are provided; setting is 3½ gal./min. for each.
								3. Air sensor pressure set at 1 3/4
Dryer				* 120	2 1/4	4		psi; main air pressure set at 20

* Blower selector set at 2
Heater selector set at 2

Dry to Dry 8¼ Min.

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Emulsion Resisto Rapid N

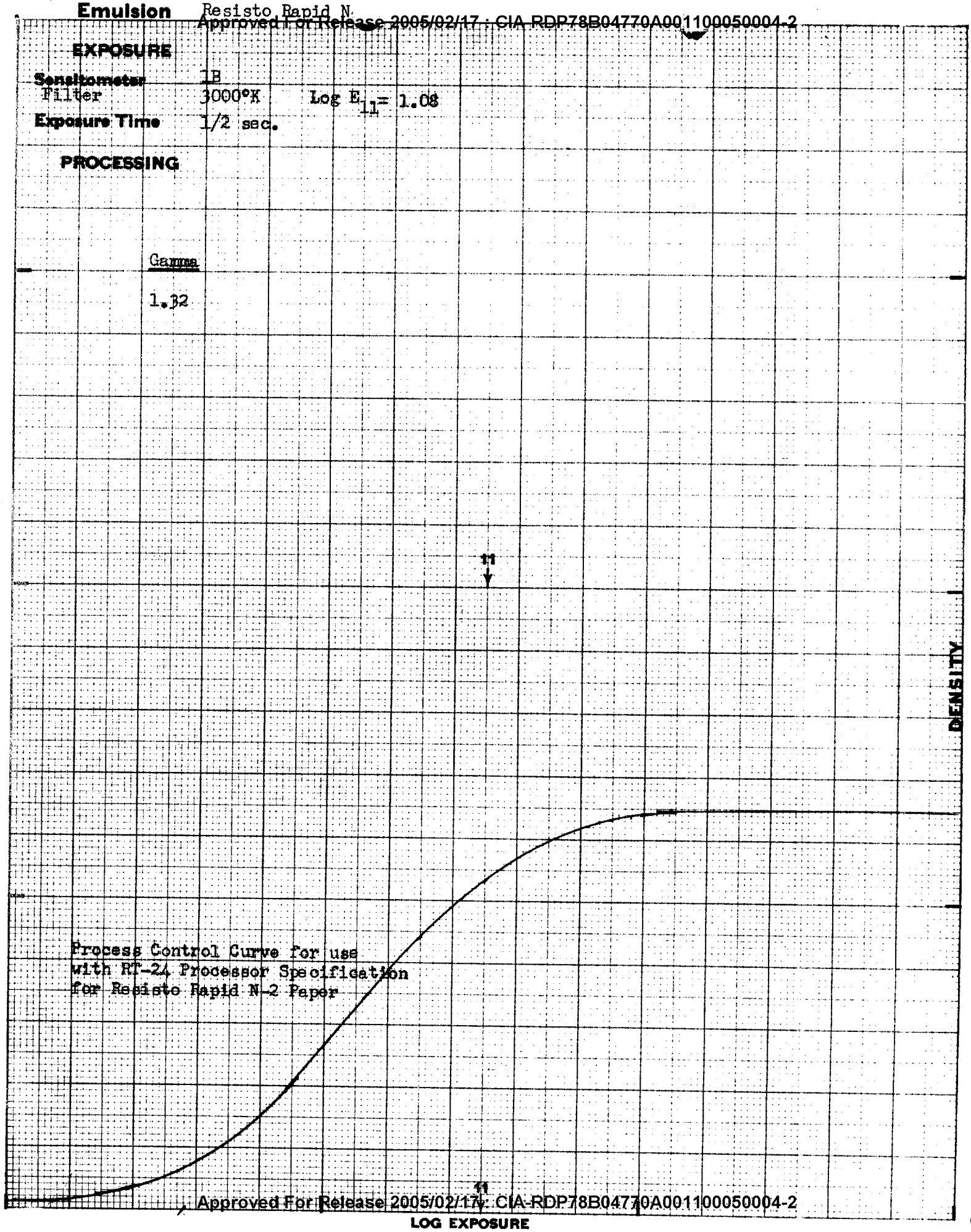
EXPOSURE

Sensitometer 1B
Filter 3000°K Log E_{11} = 1.08
Exposure Time 1/2 sec.

PROCESSING

Gamma

1.32



Process Control Curve for use
with RT-24 Processor Specification
for Resisto Rapid N-2 Paper

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DATE 10-11-65

PROCESS SPECIFICATION No.

MACHINE RT-24
PRODUCT Paper
KIND ~~XXXXXXXXXXXX~~ Resisto Rapid
SIZE 24-Inch
PROC. EMUL. UP [X] DOWN [ ]

MACHINE SPEED DIAL SETTING 8.5 ft./min.
FILM STRIP SPEED 8.5 ft./min.
SECONDS PER RACK 30
THREAD UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL REPL	REPL RATE (PER MIN)	TEMP °F	(Min.) TIME	NO. R	AGITATION	COMMENTS
Developer	Dektol 1:2	Dektol 1:2	200	68	1	2	Recirculation and Roller Action	1. Replenisher rates are tentative;
Fixer #1	Versamat Type A	Versamat Type A	300	68	1	2	"	extensive runs could indicate minor
Fixer #2	F-5	F-5	150	68	1/2	1	"	changes.
Wash	H_2O			68	3 1/2	7	Roller Action	2. Three ratosights are provided; setting is 3½ gal./min. for each.
								3. Air sensor pressure set at 1 3/4
Dryer				* 120	2 1/4	4		psi; main air pressure set at 20 psi.

~~XXXXXXXXXXXXXXX~~

~~XXXXXX~~ * Blower selector set at 2
Heater selector set at 2

~~XXXXXXX~~

Dry to Dry 8¼ Min.

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DATE 10-11-65

PROCESS SPECIFICATION No.

MACHINE RT-24
PRODUCT Paper
KIND ~~EMULSION TYPE~~ Kodabromide F-2
SIZE 24-Inch
PROC. EMUL. UP ☐ DOWN ☒

MACHINE SPEED DIAL SETTING 5.5 ft./min.
FILM STRIP SPEED 5.5 ft./min.
SECONDS PER RACK 45
THREAD UP Full

PROCESSING STAGE	CHEMICAL TANK	CHEMICAL REPL	REPL RATE (PER MIN)	TEMP °F	(Min.) TIME	NO. R	AGITATION	COMMENTS
Developer	Dektol 1:2	Dektol 1:2	100	68	1 1/2	2	Recirculation and Roller Action	1. Replenisher rates are tentative;
Fixer #1	Versamat Type A	Versamat Type A	150	68	1 1/2	2	"	extensive runs could indicate minor
Fixer #2	F-5	F-5	75	68	3/4	1	"	changes.
Wash	H_2O		3 1/2 gal	68	5 1/4	7	Roller Action	2. Three ratos ghts are provided; setting is 3½ gals./min. for each.
								3. Air sensor pressure setting is
Dryer				* 120	3	4		1 3/4 psi; main air line setting is 20 psi.

~~DAMPENERS~~

~~XXXXXX~~ * Blower selector set at 2
Heater selector set at 2

EXHAUST

Dry to Dry 12 Min.

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25X1

14 JAN

[redacted] would like to

MEET WITH:

25X1

[redacted]

REGARDING RT-24 24" Roller TRANS. PAPER PROCESSOR.

SUGGEST MON. AFT. 1330 (17 JAN)

Boyd.

25X1

[redacted] met with

Result — (1) Investigate solution to Pin holes

(2) Investigate single tab.

25X1

(3) [redacted] is to operate machine on interim basis with double tab to determine if this is a real problem.

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